

**REMARKS****A. Status of the Claims and Explanation of the Amendments**

Claims 1, 2, 5-7, 10-12, 14, 16, 19, and 24-26 are pending and under examination. Claims 1, 2, 5, 7, 10-12, 16, 18, and 25-26 have been rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over U.S. Patent No. 6,791,261 to Shimoda (“Shimoda”) in view of U.S. Patent No. 6,731,359 to Fukaya (“Fukaya”). Claims 1 and 6 have been rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over U.S. Patent No. 5,949,187 to Xu (“Xu”), in view of Fukaya. Claims 14 and 24 have been rejected under 35 U.S.C. §103(a) for allegedly being unpatentable over Shimoda and Fukaya, in view of U.S. Patent No. 5,654,811 to Spitzer (“Spitzer”).

Applicant has amended independent claims 1, 12, 16, and 26 to further clarify the invention. Support for these amendments is found in the original versions of these claims, Figures 1-10, and the specification.

Claim 7 has also been amended to clarify the invention. Support for this amendment is found at page 31, paragraph xiv. No new matter has been added by these amendments.

**B. Applicant’s Claims Are Patentable Over the Cited References****1. Rejection over Shimoda and Fukaya**

Applicant respectfully traverses the rejection of claims 1, 2, 5, 7, 10-12, 16, 18, and 25-26 under 35 U.S.C. §103(a) as allegedly being unpatentable over Shimoda, in view of Fukaya. Briefly, these references, alone or in combination, fail to teach, disclose, or suggest a

“resonant structure” as recited in Applicant’s amended claims. Accordingly, the rejection should be withdrawn. MPEP §2143.

Shimoda is directed to a luminescent device in which a negative electrode 5, a light-emitting layer 4, a positive electrode 3, a semi-reflecting layer 2R, a spacer 9G, a semi-reflecting layer 2G, a spacer 98 and a semi-reflecting layer 28 are stacked on a substrate 1, thereby forming three resonant layers (LB. LG. LR). However, Shimoda does not teach, disclose, or suggest

“a plurality of stacked resonant layers...wherein one reflective layer of a resonant layer and one reflective layer of a different resonant layer form a resonant structure such that when said electroluminescent device emits light, the number of wavelengths of resonated light emitted by said light emitting device is greater than the number of stacked resonant layers (emphasis added)

as recited in Applicant’s amended claims. Nowhere does Shimoda teach, disclose, or suggest the “resonant structure” recited in Applicant’s claims. Nor does Shimoda teach a “light emitting device” wherein “the number of wavelengths of resonated light emitted by said light emitting device is greater than the number of stacked resonant layers.”

Instead, Shimoda clearly shows that three resonant layers  $L_R$ ,  $L_B$ , and  $L_G$  are required for three wavelengths of light (e.g, see Figure 7). Thus, the number of emitted resonated wavelengths of light is merely the same as the number of resonant layers in Shimoda.

Fukaya does not relieve this deficiency of Shimoda, as Fukaya is merely directed to a reflective electrode half-mirror. There is no teaching, express or otherwise, of a “resonant structure” as recited in Applicant’s claims, or a “light emitting device” wherein “the number of wavelengths of resonated light emitted by said light emitting device is greater than the number of stacked resonant layers.”

For at least this reason, the rejection of claims 1, 2, 5, 7, 10-12, 16, 18, and 25-26 under 35 U.S.C. §103(a) over Shimoda and Fukaya should be withdrawn. Applicant respectfully requests reconsideration and withdrawal of the rejection of these claims.

## 2. Rejection Over Xu and Fukaya

Applicant respectfully traverses the rejection of claims 1 and 6 under 35 U.S.C. §103(a) as allegedly being unpatentable over Xu, in view of Fukaya. Briefly, these references, alone or in combination, fail to teach, disclose, or suggest a “resonant structure” as recited in Applicant’s amended claims. Accordingly, the rejection should be withdrawn. MPEP §2143.

Xu does not disclose a “resonant structure” as recited in Applicant’s claims. This can be seen by examining the output spectra of Xu, shown in Figures 1, 6, 7, and 8. By simply counting the peaks in the output spectra, it is evident that there is no “resonance structure” because the number of peaks is not greater than the number of resonant layers. Thus, at best, Xu merely describes spacers, mirrors, two electrodes and an EL layer layered on a transparent substrate to form plurality of resonant layers.

Xu also does not disclose that an organic electroluminescent device is one of the layers in a plurality of the resonant layers, unlike the invention claimed in Applicant’s independent claims. Fukaya does not alleviate these deficiencies of Xu. As noted above, Fukaya does not teach, disclose, or suggest a “resonant structure” as recited in Applicant’s claims. Moreover, Fukaya does not teach that an organic electroluminescent device can be one of the layers in a plurality of the resonant layers.

For at least this reason, the rejection of claims 1 and 6 under 35 U.S.C. §103(a) over Xu and Fukaya should be withdrawn. Applicant respectfully requests reconsideration and withdrawal of the rejection of these claims.

3. Shimoda, Fukaya, and Spitzer

Applicant respectfully traverses the rejection of claims 14 and 16 under 35 U.S.C. §103(a) as allegedly being unpatentable over Shimoda, in view of Fukaya and Spziter. Briefly, these references, alone or in combination, fail to teach, disclose, or suggest a “resonant structure” as recited in Applicant’s amended claims. Accordingly, the rejection should be withdrawn. MPEP §2143.

As noted above, Shimoda and Fukaya taken together fail to teach, disclose the “resonant structure” recited in Applicant’s independent claims. Spitzer, which merely describes a color filter system for display panels, also fails to teach the “resonant structure” claimed in Applicant’s claims. Accordingly, the combination of references fails to teach, expressly or otherwise, all of the claim elements in Applicant’s claims. Accordingly, the rejection under 35 U.S.C. §103(a) should be withdrawn.

**CONCLUSION**

Based on the foregoing amendments and remarks, Applicants respectfully request reconsideration and withdrawal of the rejection of claims and allowance of this application.

**AUTHORIZATION**

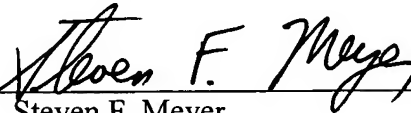
The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. **13-4500**, Order No. 5095-4068. A DUPLICATE OF THIS DOCUMENT IS ATTACHED.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No. **13-4500**, Order No. 5095-4068. A DUPLICATE OF THIS DOCUMENT IS ATTACHED.

Respectfully submitted,  
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Dated: April 25, 2006

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